

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)[Cases](#)**Search Results -**

Terms	Documents
L12 and (lotion or cream)	131

Database:

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** **Wednesday, July 02, 2003** [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L13</u>	L12 and (lotion or cream)	131	<u>L13</u>
<u>L12</u>	(l7 and L11)	465	<u>L12</u>
<u>L11</u>	(L10 and l9)	52185	<u>L11</u>
<u>L10</u>	(trimethylpentanediol adipic)	52341	<u>L10</u>
<u>L9</u>	acid copolymer	2095182	<u>L9</u>
<u>L8</u>	L7 and (acid copolymer)	2775	<u>L8</u>
<u>L7</u>	L6 and (polyester diol or complex polyester)	2775	<u>L7</u>
<u>L6</u>	L5 and (stearalkonium chloride)	2775	<u>L6</u>
<u>L5</u>	L4 and (tissue or wipe)	3088	<u>L5</u>
<u>L4</u>	L3 and (surfactant)	14625	<u>L4</u>
<u>L3</u>	L2 and (citric or malic or adipic or glutaric or succinic)	46378	<u>L3</u>
<u>L2</u>	L1 and (acid)	204567	<u>L2</u>
<u>L1</u>	polyester	454747	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 131 returned.**☐ 1. Document ID: US 20030118621 A1

L13: Entry 1 of 131

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118621

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030118621 A1

TITLE: Cosmetic and dermatological preparations in stick form, comprising an amino-substituted hydroxybenzophenone

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Heidenfelder, Thomas	Dannstadt		DE	
Wunsch, Thomas	Speyer		DE	
Andre, Valerie	Ludwigshafen		DE	

US-CL-CURRENT: [424/401](#); [514/541](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 2. Document ID: US 20030108498 A1

L13: Entry 2 of 131

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108498

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030108498 A1

TITLE: Silicone elastomer emulsion cosmetic composition comprising colorant inclusive internal phase

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stephens, Alison Fiona	Cookham	OH	GB	
Jones, Neil John	Staines	OH	GB	
Sunkel, Jorge Max	Cincinnati		US	
Vatter, Michael Lee	Okeana		US	

US-CL-CURRENT: [424/63](#); [424/70.12](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 3. Document ID: US 20030100469 A1

L13: Entry 3 of 131

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100469

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100469 A1

TITLE: Fatty acids, soaps, surfactant systems, and consumer products based thereon

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Connor, Daniel Stedman	Cincinnati	OH	US	
Scheibel, Jeffrey John	Loveland	OH	US	
Back, Deborah Jean	Cleves	OH	US	
Trinh, Toan	Maineville	OH	US	
Vinson, Phillip Kyle	Fairfield	OH	US	
Severson, Roland George	Cincinnati	OH	US	
Cripe, Thomas Anthony	Loveland	OH	US	
Burckett-St. Laurent, James Charles Theophile Roger	Lasne	OH	BE	
Sivik, Mark Robert	Mason	OH	US	
Wahl, Errol Hoffman	Cincinnati	OH	US	
Frankenbach, Gayle Marie	Cincinnati		US	
Declercq, Marc Johan	Strombeek-Bever		BE	
Demeyere, Hugo Jean Marie	Merchtem		BE	

US-CL-CURRENT: 510/421; 510/477, 510/505

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20030095826 A1

L13: Entry 4 of 131

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030095826

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030095826 A1

TITLE: CLEANING COMPOSITION, PAD, WIPE, IMPLEMENT, AND SYSTEM AND METHOD OF USE THEREOF

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Policicchio, Nicola John	Mason	OH	US	
Rhamy, Preston James	Cincinnati	OH	US	
Dusing, Michael William	Louisville	KY	US	
Willman, Kenneth William	Fairfield	OH	US	
Jackson, Rhonda Jean	Cincinnati	OH	US	

US-CL-CURRENT: 401/138

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 5. Document ID: US 20030077307 A1

L13: Entry 5 of 131

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077307
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030077307 A1

TITLE: Film-forming compositions for protecting skin from body fluids and articles made therefrom

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Klofta, Thomas James	Cincinnati	OH	US	
Staudigel, James Anthony	Cincinnati	OH	US	
Deckner, George Endel	Cincinnati	OH	US	

US-CL-CURRENT: 424/401; 604/358

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 6. Document ID: US 20030069161 A1

L13: Entry 6 of 131

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030069161
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030069161 A1

TITLE: Damp cleansing wipe

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, G. Jae	Trumbull	CT	US	
Gott, Robert Edward	Norwalk	CT	US	
Slavtcheff, Craig Stephen	Guilford	CT	US	
Cheney, Michael Charles	Fairfield	CT	US	

US-CL-CURRENT: 510/438; 510/439

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 7. Document ID: US 20030066096 A1

L13: Entry 7 of 131

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030066096
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030066096 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: 800/8; 162/162, 42/54, 424/450, 424/456, 424/70.14, 442/131

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 8. Document ID: US 20030059474 A1

L13: Entry 8 of 131

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059474

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059474 A1

TITLE: Sustained release microspheres

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Scott, Terrence L.	Winchester	MA	US	
Brown, Larry R.	Newton	MA	US	
Riske, Frank J.	Stoughton	MA	US	
Blizzard, Charles D.	Westwood	MA	US	
Rashba-Step, Julia	Newton	MA	US	

US-CL-CURRENT: 424/491; 424/130.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 9. Document ID: US 20030054089 A1

L13: Entry 9 of 131

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054089

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030054089 A1

TITLE: Tasty, convenient, nutritionally balanced food compositions

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kearney, Tamara Jocelyn	Springdale	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Murphy, Brenda Kay	Cincinnati	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Noble, Kathleen Hack	Cincinnati	OH	US	
Reinhart, Richard Nicholas JR.	Cincinnati	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Taylor, Charles Henry	Middletown	OH	US	
Tsai, Li-Hsin	Cincinnati	OH	US	
Siu, Susana Rosa Waimin	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince York-Leung	Hamilton	OH	US	

US-CL-CURRENT: 426/658

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 10. Document ID: US 20030049290 A1

L13: Entry 10 of 131

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049290

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049290 A1

TITLE: Deodorant composition

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jha, Brajesh Kumar	Higashinada-ku		JP	
Yoshimi, Naohisa	Hyogo		JP	

US-CL-CURRENT: 424/401; 424/486, 514/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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Terms	Documents
L12 and (lotion or cream)	131

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 20 of 131 returned.**☐ 11. Document ID: US 20030049212 A1

L13: Entry 11 of 131

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049212

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049212 A1

TITLE: Skin care compositions containing silicone elastomers

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Robinson, Larry Richard	Loveland	OH	US	
Kim Ha, Robert Bao	Milford	OH	US	
Sunkel, Jorge Max	Cincinnati	OH	US	
Vatter, Michael Lee	Okeana	OH	US	

US-CL-CURRENT: [424/59](#); [424/401](#), [514/354](#), [514/99](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 12. Document ID: US 20030040109 A1

L13: Entry 12 of 131

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040109

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040109 A1

TITLE: Chemokines and methods for inducing the differentiation of fibroblasts to myofibroblasts

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Martins-Green, Manuela	Riverside	CA	US	
Feugate, Jo Ellen	Riverside	CA	US	
Li, QiJing	Riverside	CA	US	

US-CL-CURRENT: [435/325](#); [424/145.1](#), [424/85.1](#), [435/320.1](#), [530/351](#), [536/23.5](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 13. Document ID: US 20030035824 A1

L13: Entry 13 of 131

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030035824
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030035824 A1

TITLE: Top-biased beneficial components on substrates

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Isele, Olaf	West Chester	OH	US	
Gatto, Joseph Anthony	Loveland	OH	US	
Klofta, Thomas James	Cincinnati	OH	US	
McNally, Matthew Gerald	West Chester	OH	US	
Rule, Julie Charlene	Cincinnati	OH	US	
Staudigel, James Anthony	Cincinnati	OH	US	
Stone, Kirsten Kae	West Chester	OH	US	
Taylor, Sherman Lee II	Mason	OH	US	

US-CL-CURRENT: [424/443](#); [424/70.1](#), [442/123](#), [510/238](#), [510/245](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 14. Document ID: US 20030035785 A1

L13: Entry 14 of 131

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030035785
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030035785 A1

TITLE: Skin protection composition

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Palumbo, Gianfranco	Homburg		DE	
Guarracino, Mario	Silvi Marina		IT	

US-CL-CURRENT: [424/70.28](#); [424/70.31](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 15. Document ID: US 20030034050 A1

L13: Entry 15 of 131

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030034050
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030034050 A1

TITLE: Cleaning composition, pad, wipe, implement, and system and method of use thereof

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Policicchio, Nicola John	Mason	OH	US	
Rhamy, Preston James	Cincinnati	OH	US	
Dusing, Michael William	Louisville	KY	US	
Willman, Kenneth William	Fairfield	OH	US	
Jackson, Rhonda Jean	Cincinnati	OH	US	

US-CL-CURRENT: 134/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 16. Document ID: US 20030032349 A1

L13: Entry 16 of 131

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032349

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032349 A1

TITLE: Damp cleansing wipe

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gott, Robert Edward	Norwalk	CT	US	
Slavtcheff, Craig Stephen	Guilford	CT	US	

US-CL-CURRENT: 442/59; 442/118, 442/93

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 17. Document ID: US 20030026816 A1

L13: Entry 17 of 131

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030026816

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030026816 A1

TITLE: Pseudoplastic, film forming cosmetic compositions

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zoltowski, Craig Eugene	Baltimore	MD	US	
Gilley, John Michael	Joppa	MD	US	
Scott, Alic Anthony	Ellicott City	MD	US	

US-CL-CURRENT: 424/401; 424/70.23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 18. Document ID: US 20030026815 A1

L13: Entry 18 of 131

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030026815
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030026815 A1

TITLE: Film forming cosmetic compositions

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Scott, Alic Anthony	Ellicott City	MD	US	
Gilley, John Michael	Joppa	MD	US	
Zoltowski, Craig Eugene	Baltimore	MD	US	

US-CL-CURRENT: 424/401; 424/70.15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 19. Document ID: US 20030022572 A1

L13: Entry 19 of 131

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022572
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030022572 A1

TITLE: Dry cleansing wipe with high foamability and efficient manufacture

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gott, Robert Edward	Norwalk	CT	US	
Slavtcheff, Craig Stephen	Guilford	CT	US	

US-CL-CURRENT: 442/93

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 20030022105 A1

L13: Entry 20 of 131

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022105
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030022105 A1

TITLE: TWO -PHOTON UPCONVERTING DYES AND APPLICATIONS

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
PRASAD, PARAS N.	WILLIAMSVILLE	NY	US	
BHAWALKAR, JAYANT D.	TONAWANDA	NY	US	
CHENG, PING	WILLIAMSVILLE	NY	US	
PAN, SHAN JEN	PLANO	TX	US	

US-CL-CURRENT: 430/270.15; 128/898, 430/19, 430/270.18, 430/945, 514/356

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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[Generate Collection](#)[Print](#)**Terms**

L12 and (lotion or cream)

Documents

131

Display Format:

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 21 through 30 of 131 returned.**☐ 21. Document ID: US 20030013615 A1

L13: Entry 21 of 131

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013615
PGPUB-FILING-TYPE: voluntary
DOCUMENT-IDENTIFIER: US 20030013615 A1

TITLE: LUBRICANT COMPOSITIONS AND METHODS

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Levy , Richard	Ft. Myers	FL	US	

US-CL-CURRENT: 508/113[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 22. Document ID: US 20020198113 A1

L13: Entry 22 of 131

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020198113
PGPUB-FILING-TYPE: voluntary
DOCUMENT-IDENTIFIER: US 20020198113 A1

TITLE: LUBRICANT COMPOSITIONS AND METHODS

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LEVY , Richard	Fort Myers	FL	US	

US-CL-CURRENT: 508/100[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 23. Document ID: US 20020192172 A1

L13: Entry 23 of 131

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192172
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020192172 A1

TITLE: Emulsions with naphthalate esters

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chopra, Suman Kumar	Dayton	NJ	US	
Moghe, Bhal	Whitehouse Station	NJ	US	

US-CL-CURRENT: 424/65

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 24. Document ID: US 20020182239 A1

L13: Entry 24 of 131

File: PGPB

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182239

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020182239 A1

TITLE: Composition and method for inhibiting polar capsule discharge and protecting a subject from nematocyst sting

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lotan, Amit	Jordon Valley		IL	

US-CL-CURRENT: 424/401; 424/617, 424/678, 424/681

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 25. Document ID: US 20020175092 A1

L13: Entry 25 of 131

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020175092

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020175092 A1

TITLE: Method of cleaning floors and other large surfaces

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stulens, Marielle Jeannine Coletta	Meldert		BE	
Menif, Rached	Longueville		BE	

US-CL-CURRENT: 206/229; 134/6, 206/232, 206/459.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 26. Document ID: US 20020168216 A1

L13: Entry 26 of 131

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168216
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020168216 A1

TITLE: Cleaning composition, pad, wipe, implement, and system and method of use thereof

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Policicchio, Nicola John	Mason	OH	US	
Rhamy, Preston James	Cincinnati	OH	US	
Dusing, Michael William	Louisville	KY	US	
Willman, Kenneth William	Fairfield	OH	US	
Jackson, Rhonda Jean	Cincinnati	OH	US	

US-CL-CURRENT: 401/270; 401/138, 401/140

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 27. Document ID: US 20020166573 A1

L13: Entry 27 of 131

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020166573
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020166573 A1

TITLE: Cleaning composition, pad, wipe implement, and system and method of use thereof

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Policicchio, Nicola John	Mason	OH	US	
Rhamy, Preston James	Cincinnati	OH	US	
Dusing, Michael William	Louisville	KY	US	
Willman, Kenneth William	Fairfield	OH	US	
Jackson, Rhonda Jean	Cincinnati	OH	US	

US-CL-CURRENT: 134/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 28. Document ID: US 20020165298 A1

L13: Entry 28 of 131

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165298
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020165298 A1

TITLE: Amino- and hydroxysubstituted triphenyl-s-triazines as stabilizers

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reinehr, Dieter	Kandern		DE	
Metzger, Georges	Moernach		FR	
Michaelis, Peter	Geispitzen		FR	
Luther, Helmut	Grenzach-Wyhlen		DE	

US-CL-CURRENT: 524/100; 544/180

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 29. Document ID: US 20020151525 A1

L13: Entry 29 of 131

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151525

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151525 A1

TITLE: Transcobalamin receptor binding conjugates useful for treating abnormal cellular proliferation

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Collins, Douglas A.	Rochester	MN	US	
Hogenkamp, Henricus P.C.	Roseville	MN	US	

US-CL-CURRENT: 514/80; 540/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 30. Document ID: US 20020147433 A1

L13: Entry 30 of 131

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020147433

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020147433 A1

TITLE: Proton donating actives in absorbent articles

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McOsker, Jocelyn Elaine	Loveland	OH	US	
Roe, Donald Carroll	West Chester	OH	US	
Franxman, James Joseph	Cincinnati	OH	US	
Klofta, Thomas James	Cincinnati	OH	US	
Berg, Ronald Wayne	Fairfield	OH	US	
Warren, Raphael	Amberly Village	OH	US	

US-CL-CURRENT: 604/364; 604/385.01

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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L12 and (lotion or cream)

131

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 31 through 40 of 131 returned.**☐ 31. Document ID: US 20020137765 A1

L13: Entry 31 of 131

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137765

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137765 A1

TITLE: Sustained release formulations for growth hormone secretagogues

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Am Ende, Mary T.	Waterford	CT	US	
Curatolo, William J.	Niantic	CT	US	
Herbig, Scott M.	East Lyme	CT	US	

US-CL-CURRENT: [514/303](#); [424/468](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 32. Document ID: US 20020119174 A1

L13: Entry 32 of 131

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119174

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119174 A1

TITLE: Compositions useful for regulating hair growth containing metal complexes of oxidized carbohydrates

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gardlik, John Michael	Cincinnati	OH	US	
Severynse-Stevens, Diana	Yardley	PA	US	
Comstock, Bryan Gabriel	Mason	OH	US	

US-CL-CURRENT: [424/401](#); [514/54](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 33. Document ID: US 20020106385 A1

L13: Entry 33 of 131

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106385
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020106385 A1

TITLE: Cosmetic compositions

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vatter, Michael Lee	Okeana	OH	US	
Sunkel, Jorge Max	Cincinnati	OH	US	

US-CL-CURRENT: 424/401

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 34. Document ID: US 20020098159 A1

L13: Entry 34 of 131

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098159
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020098159 A1

TITLE: Antimicrobial compositions

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wei, Karl Shiqing	Mason	OH	US	
Biedermann, Kimberly Ann	Cincinnati	OH	US	
Morgan, Jeffrey Michael	Springboro	OH	US	
Beerse, Peter William	Morrow	OH	US	
Tarantino, David Edmund	Loveland	OH	US	
Sine, Mark Richard	Windsor	OH	GB	
Warren, Raphael	Cincinnati		US	

US-CL-CURRENT: 424/70.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 35. Document ID: US 20020094992 A1

L13: Entry 35 of 131

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094992
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020094992 A1

TITLE: Intermittent administration of a growth hormone secretagogue

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
MacLean, David B.	Providence	RI	US	

US-CL-CURRENT: 514/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 36. Document ID: US 20020094359 A1

L13: Entry 36 of 131

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094359

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094359 A1

TITLE: Ready-to-eat nutritionally balanced food compositions having superior taste systems

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kearney, Tamara Jocelyn	Springdale	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Murphy, Brenda Kay	Cincinnati	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Noble, Kathleen Hack	Cincinnati	OH	US	
Reinhart, Richard Nicholas JR.	Cincinnati	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Tsai, Li-Hsin	Cincinnati	OH	US	
Siu, Susana Rosa Waimin	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince York-Leung	Hamilton	OH	US	

US-CL-CURRENT: 426/72; 426/549, 426/637, 426/74, 426/808

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 37. Document ID: US 20020086039 A1

L13: Entry 37 of 131

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086039

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086039 A1

TITLE: New cosmetic, personal care, cleaning agent, and nutritional supplement compositions and methods of making and using same

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Sean	Karlsruhe	FL	DE	
Kessler, Susanna	Ergolding		DE	
Forberich, Oliver	Oberursel		DE	
Buchwar, Claire	Wiesbaden		DE	
Greenspan, David C.	Grainsville		US	

US-CL-CURRENT: [424/401](#); [424/63](#), [424/64](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 38. Document ID: US 20020049155 A1

L13: Entry 38 of 131

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020049155
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020049155 A1

TITLE: Cobalamin compounds useful as cardiovascular agents and as imaging agents

PUBLICATION-DATE: April 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hogenkamp, Henricus P.C.	Roseville	MN	US	

US-CL-CURRENT: [514/7](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 39. Document ID: US 20020042394 A1

L13: Entry 39 of 131

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042394
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020042394 A1

TITLE: Cobalamin compounds useful as antibiotic agents and as imaging agents

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hogenkamp, Henricus P.C.	Roseville	MN	US	
Collins, Douglas A.	Rochester	MN	US	

US-CL-CURRENT: [514/53](#); [514/185](#), [536/26.44](#), [540/145](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 40. Document ID: US 20020035070 A1

L13: Entry 40 of 131

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020035070

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020035070 A1

TITLE: Method of regulating hair growth using metal complexes of oxidized carbohydrates

PUBLICATION-DATE: March 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gardlik, John Michael	Cincinnati	OH	US	
Severynse-Stevens, Diana	Yardley	PA	US	
Comstock, Bryan Gabriel	Mason	OH	US	

US-CL-CURRENT: 514/23; 514/492, 514/494, 514/495, 514/499

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FORM	Draw Desc	Image
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L13: Entry 41 of 131

File: PGPB

Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020034574

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020034574 A1

TITLE: Nutritionally balanced snack food compositions

PUBLICATION-DATE: March 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Siu, Susana Rosa Waimin	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince Y.	Hamilton	OH	US	

US-CL-CURRENT: [426/560](#); [426/112](#), [426/549](#), [426/611](#), [426/72](#), [426/74](#), [426/808](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[MMC](#) [Draw Desc](#) [Image](#)☐ 42. Document ID: US 20020028223 A1

L13: Entry 42 of 131

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028223

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028223 A1

TITLE: Anhydrous cosmetic compositions

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vatter, Michael Lee	Okeana	OH	US	
Sunkel, Jorge Max	Cincinnati	OH	US	
Motley, Curtis Bobby	West Chester	OH	US	

US-CL-CURRENT: [424/401](#); [424/63](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 43. Document ID: US 20020028184 A1

L13: Entry 43 of 131

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028184
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020028184 A1

TITLE: Cosmetic compositions

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sunkel, Jorge Max	Cincinnati	OH	US	
Vatter, Michael Lee	Okeana	OH	US	

US-CL-CURRENT: 424/59; 424/400, 424/401, 424/60, 424/78.02, 424/78.08

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 44. Document ID: US 20020018791 A1

L13: Entry 44 of 131

File: PGPB

Feb 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020018791
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020018791 A1

TITLE: Anhydrous cosmetic compositions

PUBLICATION-DATE: February 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vatter, Michael Lee	Okeana	OH	US	
Sunkel, Jorge Max	Cincinnati	OH	US	
Motley, Curtis Bobby	Chester	OH	US	

US-CL-CURRENT: 424/401

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 45. Document ID: US 20020018790 A1

L13: Entry 45 of 131

File: PGPB

Feb 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020018790
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020018790 A1

TITLE: Cosmetic compositions

PUBLICATION-DATE: February 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vatter, Michael Lee	Okeana	OH	US	
Sunkel, Jorge Max	Cincinnati	OH	US	
Motley, Curtis Bobby	West Chester	OH	US	

US-CL-CURRENT: 424/401; 424/63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 46. Document ID: US 20020018760 A1

L13: Entry 46 of 131

File: PGPB

Feb 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020018760

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020018760 A1

TITLE: Cosmetic compositions

PUBLICATION-DATE: February 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vatter, Michael Lee	Okeana	OH	US	
Sunkel, Jorge Max	Cincinnati	OH	US	
Motley, Curtis Bobby	West Chester	OH	US	

US-CL-CURRENT: 424/70.12; 424/401, 424/70.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 47. Document ID: US 20020015761 A1

L13: Entry 47 of 131

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020015761

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020015761 A1

TITLE: Tasty, ready-to-eat, nutritionally balanced food compositions

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kearney, Tamara Jocelyn	Springdale	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Murphy, Brenda Kay	Cincinnati	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Noble, Kathleen Hack	Cincinnati	OH	US	
Reinhart, Richard Nicholas JR.	Cincinnati	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Tsai, Li-Hsin	Cincinnati	OH	US	
Waimin Siu, Susana Rosa	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince York-Leung	Hamilton	OH	US	

US-CL-CURRENT: [426/72](#); [426/549](#), [426/637](#), [426/74](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 48. Document ID: US 20020015760 A1

L13: Entry 48 of 131

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020015760

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020015760 A1

TITLE: Traditional snacks having balanced nutritional profiles

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Siu, Susana Rosa Waimin	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince York-Leung	Hamilton	OH	US	

US-CL-CURRENT: [426/72](#); [426/549](#), [426/74](#), [426/808](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 49. Document ID: US 20020015759 A1

L13: Entry 49 of 131

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020015759
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020015759 A1

TITLE: Nutritionally balanced traditional snack foods

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Waimin Siu, Susana Rosa	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince York-Leung	Hamilton	OH	US	

US-CL-CURRENT: 426/72; 426/549, 426/637, 426/74, 426/808

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 50. Document ID: US 20020015688 A1

L13: Entry 50 of 131

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020015688
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020015688 A1

TITLE: Urethane surfactants and their use in personal care formulations

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zofchak, Albert	Matawan	NJ	US	
Kenney, Madeline	Caldwell	NJ	US	
Obeji, John	Clifton	NJ	US	
Mosquera, Michael	Forked River	NJ	US	

US-CL-CURRENT: 424/78.27; 525/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L13: Entry 51 of 131

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012722

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012722 A1

TITLE: Tasty, convenient, nutritionally balanced food compositions

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prosise, Robert Lawrence	Cincinnati	OH	US	
Beharry, Christopher Randall	Cincinnati	OH	US	
Elsen, Joseph James	St. Bernard	OH	US	
Helmers, Ralph Lawrence JR.	Cincinnati	OH	US	
Kearney, Tamara Jocelyn	Springdale	OH	US	
Kester, Jeffrey John	West Chester	OH	US	
Murphy, Brenda Kay	Cincinnati	OH	US	
Niehoff, Raymond Louis	West Chester	OH	US	
Noble, Kathleen Hack	Cincinnati	OH	US	
Reinhart, Richard Nicholas JR.	Cincinnati	OH	US	
Sarama, Robert Joseph	Loveland	OH	US	
Taylor, Charles Henry	Middletown	OH	US	
Tsai, Li-Hsin	Cincinnati	OH	US	
Siu, Susana Rosa Waimin	Cincinnati	OH	US	
Wehmeier, Thomas Joseph	Cincinnati	OH	US	
Wong, Vince York-Leung	Hamilton	OH	US	

US-CL-CURRENT: [426/72](#); [426/549](#), [426/637](#), [426/74](#), [426/808](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 52. Document ID: US 20020006886 A1

L13: Entry 52 of 131

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006886

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020006886 A1

TITLE: PERSONAL CARE ARTICLES COMPRISING CATIONIC POLYMER COACERVATE COMPOSITIONS

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BEERSE, PETER WILLIAM	MORROW	OH	US	
SMITH, EDWARD DEWEY III	MASON	OH	US	

US-CL-CURRENT: [510/295](#); [510/297](#), [510/439](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 53. Document ID: US 20020006434 A1

L13: Entry 53 of 131

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006434
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020006434 A1

TITLE: Anti-viral lotion tissue, and methods for making and using the same

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shanklin, Gary L.	Fremont	WI	US	
Krzysik, Duane G.	Appleton	WI	US	
Henderson, Cynthia W.	Neenah	WI	US	

US-CL-CURRENT: [424/443](#); [514/519](#), [514/557](#), [514/568](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 54. Document ID: US 20020004942 A1

L13: Entry 54 of 131

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004942
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020004942 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: [800/288](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 55. Document ID: US 20010049344 A1

L13: Entry 55 of 131

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049344
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010049344 A1

TITLE: Lubricant compositions and methods

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Levy, Richard	Fort Myers	FL	US	

US-CL-CURRENT: 508/118; 508/155, 508/167, 508/466

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 56. Document ID: US 20010046513 A1

L13: Entry 56 of 131

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010046513
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010046513 A1

TITLE: Substantially dry cleansing product of improved latherability and wet flexibility

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gott, Robert Edward	Norwalk	CT	US	
Gomes, Filomena Augusta	Naugatuck	CT	US	
Slavtcheff, Craig Stephen	Guilford	CT	US	
Lunsmann, Walter Joseph	Ringoes	NJ	US	

US-CL-CURRENT: 424/443; 442/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 57. Document ID: US 20010037100 A1

L13: Entry 57 of 131

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037100
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010037100 A1

TITLE: Antimicrobial absorbent article, and methods of making and using the same

PUBLICATION-DATE: November 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shanklin, Gary L.	Fremont	WI	US	

US-CL-CURRENT: 604/358

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 58. Document ID: US 20010018068 A1

L13: Entry 58 of 131

File: PGPB

Aug 30, 2001

PGPUB-DOCUMENT-NUMBER: 20010018068

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010018068 A1

TITLE: Personal care articles comprising hotmelt compositions

PUBLICATION-DATE: August 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lorenzi, Marc Paul	Egham	OH	GB	
Smith, Edward Dewey III	Mason		US	
Phipps, Nicola Jacqueline	Bracknell		GB	

US-CL-CURRENT: 424/443; 510/130

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 59. Document ID: US 20010014711 A1

L13: Entry 59 of 131

File: PGPB

Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014711

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010014711 A1

TITLE: Lubricant compositions and methods

PUBLICATION-DATE: August 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Levy, Richard	Fort Myers	FL	US	

US-CL-CURRENT: 524/406; 524/495

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 60. Document ID: US 20010006640 A1

L13: Entry 60 of 131

File: PGPB

Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010006640

PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20010006640 A1

TITLE: COMPOUNDS AND METHODS TO INHIBIT OR AUGMENT AN INFLAMMATORY RESPONSE

PUBLICATION-DATE: July 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GRAINGER, DAVID J.	CAMBRIDGE	WA	GB	
TATALICK, LAUREN MARIE	REDMOND		US	

US-CL-CURRENT: 424/198.1; 514/13, 514/25, 530/330, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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L13: Entry 61 of 131

File: PGPB

Jun 14, 2001

PGPUB-DOCUMENT-NUMBER: 20010003586
PGPUB-FILING-TYPE: new-utility
DOCUMENT-IDENTIFIER: US 20010003586 A1

TITLE: COSMETIC COMPOSITIONS

PUBLICATION-DATE: June 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
VATTER, MICHAEL LEE	OKEANA	OH	US	
JAKUBOVIC, DAVID ANDREW	MIDDLESEX		GB	

US-CL-CURRENT: 424/401

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 62. Document ID: US 6559353 B1

L13: Entry 62 of 131

File: USPT

May 6, 2003

US-PAT-NO: 6559353
DOCUMENT-IDENTIFIER: US 6559353 B1

TITLE: Treated disposable articles for reducing skin breakdown

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 63. Document ID: US 6524598 B2

L13: Entry 63 of 131

File: USPT

Feb 25, 2003

US-PAT-NO: 6524598
DOCUMENT-IDENTIFIER: US 6524598 B2

TITLE: Cosmetic compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 64. Document ID: US 6523540 B1

L13: Entry 64 of 131

File: USPT

Feb 25, 2003

US-PAT-NO: 6523540

DOCUMENT-IDENTIFIER: US 6523540 B1

TITLE: Spermicidal lubricated polyurethane condoms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 65. Document ID: US 6517849 B1

L13: Entry 65 of 131

File: USPT

Feb 11, 2003

US-PAT-NO: 6517849

DOCUMENT-IDENTIFIER: US 6517849 B1

TITLE: Tissue products containing antiviral agents which are mild to the skin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 66. Document ID: US 6517824 B1

L13: Entry 66 of 131

File: USPT

Feb 11, 2003

US-PAT-NO: 6517824

DOCUMENT-IDENTIFIER: US 6517824 B1

TITLE: Polymer compositions comprising antifibrotic agents, and methods of treatment, pharmaceutical compositions, and methods of preparation therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 67. Document ID: US 6491933 B2

L13: Entry 67 of 131

File: USPT

Dec 10, 2002

US-PAT-NO: 6491933

DOCUMENT-IDENTIFIER: US 6491933 B2

TITLE: Personal care articles comprising hotmelt compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 68. Document ID: US 6491928 B1

L13: Entry 68 of 131

File: USPT

Dec 10, 2002

US-PAT-NO: 6491928

DOCUMENT-IDENTIFIER: US 6491928 B1

**** See image for Certificate of Correction ****

TITLE: Water-flux limiting cleansing articles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCC	Draw Desc	Image
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☐ 69. Document ID: US 6488943 B1

L13: Entry 69 of 131

File: USPT

Dec 3, 2002

US-PAT-NO: 6488943

DOCUMENT-IDENTIFIER: US 6488943 B1

TITLE: Antimicrobial wipes which provide improved immediate germ reduction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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ROMC	Draw Desc	Image
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☐ 70. Document ID: US 6482423 B1

L13: Entry 70 of 131

File: USPT

Nov 19, 2002

US-PAT-NO: 6482423

DOCUMENT-IDENTIFIER: US 6482423 B1

TITLE: Antimicrobial wipes which provide improved residual benefit versus gram positive bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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ROMC	Draw Desc	Image
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L13: Entry 71 of 131

File: USPT

Nov 5, 2002

US-PAT-NO: 6475501

DOCUMENT-IDENTIFIER: US 6475501 B1

TITLE: Antiviral compositions for tissue paper

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 72. Document ID: US 6475500 B2

L13: Entry 72 of 131

File: USPT

Nov 5, 2002

US-PAT-NO: 6475500

DOCUMENT-IDENTIFIER: US 6475500 B2

**** See image for Certificate of Correction ****

TITLE: Anhydrous cosmetic compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 73. Document ID: US 6468511 B1

L13: Entry 73 of 131

File: USPT

Oct 22, 2002

US-PAT-NO: 6468511

DOCUMENT-IDENTIFIER: US 6468511 B1

TITLE: Emulsions with naphthalate esters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 74. Document ID: US 6458387 B1

L13: Entry 74 of 131

File: USPT

Oct 1, 2002

US-PAT-NO: 6458387

DOCUMENT-IDENTIFIER: US 6458387 B1

TITLE: Sustained release microspheres

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 75. Document ID: US 6455055 B1

L13: Entry 75 of 131

File: USPT

Sep 24, 2002

US-PAT-NO: 6455055

DOCUMENT-IDENTIFIER: US 6455055 B1

TITLE: Cosmetic compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 76. Document ID: US 6428799 B1

L13: Entry 76 of 131

File: USPT

Aug 6, 2002

US-PAT-NO: 6428799

DOCUMENT-IDENTIFIER: US 6428799 B1

TITLE: Personal care articles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 77. Document ID: US 6419962 B1

L13: Entry 77 of 131

File: USPT

Jul 16, 2002

US-PAT-NO: 6419962

DOCUMENT-IDENTIFIER: US 6419962 B1

TITLE: External skin treatment composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 78. Document ID: US 6413529 B1

L13: Entry 78 of 131

File: USPT

Jul 2, 2002

US-PAT-NO: 6413529

DOCUMENT-IDENTIFIER: US 6413529 B1

TITLE: Antimicrobial wipes which provide improved residual benefit versus gram negative bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 79. Document ID: US 6402037 B1

L13: Entry 79 of 131

File: USPT

Jun 11, 2002

US-PAT-NO: 6402037

DOCUMENT-IDENTIFIER: US 6402037 B1

TITLE: Two-photon upconverting dyes and applications

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 80. Document ID: US 6395701 B1

L13: Entry 80 of 131

File: USPT

May 28, 2002

US-PAT-NO: 6395701

DOCUMENT-IDENTIFIER: US 6395701 B1

TITLE: Fatty acids, soaps, surfactant systems, and consumer products based on branched 17-carbon fatty acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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L13: Entry 81 of 131

File: USPT

May 21, 2002

US-PAT-NO: 6391835

DOCUMENT-IDENTIFIER: US 6391835 B1

TITLE: Alkyl diol impregnate dry cleansing wipe

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gott; Robert Edward	Norwalk	CT		
Slavtcheff; Craig Stephen	Guilford	CT		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Unilever Home & Personal Care USA division of Conopco Inc.	Greenwich	CT				02

APPL-NO: 09/ 691568 [PALM]

DATE FILED: October 18, 2000

PARENT-CASE:

This appln claims benefit of No. 60/197,482 Apr. 17, 2000.

INT-CL: [07] C11 D 17/00

US-CL-ISSUED: 510/143

US-CL-CURRENT: 510/143

FIELD-OF-SEARCH: 424/402, 510/295, 510/143

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>3975294</u>	August 1976	Dumoulin	
<input type="checkbox"/>	<u>5091102</u>	February 1992	Sheridan	252/91
<input type="checkbox"/>	<u>5830487</u>	November 1998	Klofta et al.	424/402
<input type="checkbox"/>	<u>5863663</u>	January 1999	Mackey et al.	
<input type="checkbox"/>	<u>5919471</u>	July 1999	Saferstein et al.	424/402
<input type="checkbox"/>	<u>5951991</u>	September 1999	Wagner et al.	
<input type="checkbox"/>	<u>5952043</u>	September 1999	Mackey et al.	
<input type="checkbox"/>	<u>5980931</u>	November 1999	Fowler et al.	
<input type="checkbox"/>	<u>5996797</u>	December 1999	Flaig	206/494

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
199 03 717	January 1999	DE	
2 538 238	December 1982	FR	
97/34519	September 1997	WO	
99/55303	November 1999	WO	
99/63962	December 1999	WO	

OTHER PUBLICATIONS

International Search Report.

ART-UNIT: 1751

PRIMARY-EXAMINER: Hardee; John

ATTY-AGENT-FIRM: Honig; Milton L.

ABSTRACT:

A disposable substantially dry cleansing article is disclosed having a lathering surfactant and a C.sub.5 -C.sub.12 alkyl diol impregnated into a flexible substrate such as a non-woven cloth. The alkyl diol primarily is a process aid which may concurrently improve aesthetics and increase latherability. Hexylene glycol is the preferred diol. Best performance is achieved with an alkyl diol to total lathering surfactant weight ratio from about 1:1 to about 1:8.

7 Claims, 0 Drawing figures

Exemplary Claim Number: 1

BRIEF SUMMARY:

- 1 BACKGROUND OF THE INVENTION
- 2 1. Field of the Invention
- 3 The invention concerns low-cost, easily manufacturable disposable single use, substantially dry, cleansing articles.
- 4 2. The Related Art
- 5 Personal cleansing and conditioning products have traditionally been marketed in a variety of forms such as bar soaps, creams, lotions, and gels. These formulations

have attempted to satisfy a number of criteria to be acceptable to consumers. These criteria include cleansing effectiveness, skin feel, skin mildness and lather volume. Ideal personal cleansers should gently cleanse the skin or hair, cause little or no irritation, and not leave the skin or hair overly dry after frequent use.

- 6 A series of granted and pending patent applications have been published by Procter & Gamble describing substantially dry, disposable, personal cleansing products which address many of the aforementioned functionality concerns. These products are substantially dry articles having deposited onto a woven or non-woven cloth a cleansing composition of surfactant, structurant, skin conditioning agent and other performance ingredients. U.S. Pat. No. 5,951,991 (Wagner et al.) focuses on providing the substrate with a conditioning emulsion separately impregnated from the lathering surfactant onto the cloth substrate. U.S. Pat. No. 5,980,931 (Fowler et al.) emphasizes impregnation of oil soluble conditioning agents. WO 99/55303 (Albacarys et al.) describes skin care actives formulated with the cleansing composition. Manufacturing processes for these products are reported in U.S. Pat. No. 5,952,043 and U.S. Pat. No. 5,863,663, both to Mackey et al. These patents teach use of a continuous lipid phase with a high melting waxy material deposited onto the wipe substrate. The material is intended to be sufficiently brittle so as to be easily disrupted by low shear contact (e.g. during wiping of the skin) to readily release an internal skin conditioning phase, yet the material is required to be sufficiently tough to avoid premature release of the internal phase during the rigors of processing. A problem with this technology is that through compromise the continuous external lipid phase/internal polar phase is neither sufficiently robust for processing and handling nor sufficiently releasable under wash conditions to allow efficient release of conditioning agent onto the skin. A better wipe impregnation and skin conditioning system has been sought.
- 7 Accordingly, it is an object of the present invention to provide a disposable, substantially dry cleansing product featuring lathering surfactants deposited with an improved impregnation system onto a wiping article.
- 8 Another object of the present invention is to provide a disposable, substantially dry cleansing product having a cleansing composition coating on a flexible wiping cloth wherein the composition adheres without either brittleness or tackiness onto the cloth.
- 9 Still another object of the present invention is to provide a disposable, substantially dry cleansing product which includes an impregnation system allowing for improved manufacturability, better aesthetics and increased latherability.
- 10 These and other objects of the present invention will become more apparent in light of the following summary and disclosure.

11 SUMMARY OF THE INVENTION

12 A substantially dry cleansing product is provided which includes:

13 (i) a water insoluble substrate;

14 (ii) a lathering surfactant; and

15 (iii) a C.sub.5 -C.sub.12 alkyl diol, the diol and total lathering surfactant being present in a weight ratio from about 1:1 to about 1:8.

16 Advantageously very small amounts of water may be present in the impregnated composition. Preferably the combined weight of alkyl diol and water to lathering surfactant may be in a weight ratio from about 3:1 to about 1:5.

DETAILED DESCRIPTION:

1 DETAILED DESCRIPTION OF THE INVENTION

- 2 Now it has been discovered that C.sub.5 -C.sub.12 alkyl diols can be used to impregnate lathering surfactants onto a wiping article. Improved latherability can be obtained while minimizing the problem of stickiness. Additionally, process advantages are obtained because water used as a traditional carrier for impregnation can be minimized. Phase stability of the coating solution is enhanced by the use of the diol. It has further been found that the improved properties are achieved through control of the weight ratio between the diol and lathering surfactant. Weight ratios of diol to total lathering surfactant should range from about 1:1 to about 1:8, preferably from about 1:2 to about 1:6, optimally from about 1:2.5 to about 1:4.
- 3 Advantageously small amounts of water may be present in the impregnated compositions. These amounts should not exceed 20% but may range from about 1 to about 15% by weight. Diols and water relative to total surfactant may be present in a weight ratio from about 3:1 to about 1:5, preferably from about 2:1 to about 1:2, optimally about 1:1. With weight ratios lower than 1:5, the product may be difficult to coat without adding water to reduce viscosity, but thereby forcing a costly drying step. Moreover, these lower ratios are likely to be pasty resulting in an aesthetically displeasing to the touch wiping article. Much higher weight ratios such as those above 4:1 will not feel dry and will lather poorly.
- 4 Diols according to the present invention have from 5 to 12 carbon atoms. They preferably are alkyl diols such as hexylene glycol, octylene glycol, decylene diol and dodecylene diol as well as combinations thereof. Most preferred is hexylene glycol. Amounts of the diol may range from about 2% to about 40%, preferably from about 10% to about 20%, optimally from about 12% to about 16% by weight of the impregnated composition.
- 5 A second essential element of compositions according to the present invention is that of a lathering surfactant. By a "lathering surfactant" is meant a surfactant, which when combined with water and mechanically agitated generates a foam or lather. Preferably, these lathering surfactants should be mild, which means that they must provide sufficient cleansing or deterative benefits but not overly dry the skin or hair, and yet meet the lathering criteria described above.
- 6 The products of the present invention typically comprise a lathering surfactant in an amount from about 0.5% to about 40%, preferably from about 0.75% to about 20%, and more preferably from about 1% to about 10%, based on the weight of the impregnated composition.
- 7 A wide variety of lathering surfactants are useful herein and include those selected from the group consisting of anionic, nonionic, cationic, amphoteric and lathering surfactant mixtures thereof.
- 8 Among the anionic lathering surfactants useful herein are the following non-limiting examples which include the classes of:
 - 9 (1) Alkyl benzene sulfonates in which the alkyl group contains from 9 to 15 carbon atoms, preferably 11 to 14 carbon atoms in straight chain or branched chain configuration. Especially preferred is a linear alkyl benzene sulfonate containing about 12 carbon atoms in the alkyl chain.
 - 10 (2) Alkyl sulfates obtained by sulfating an alcohol having 8 to 22 carbon atoms, preferably 12 to 16 carbon atoms. The alkyl sulfates have the formula ROSO_3M where R is the C.sub.8-22 alkyl group and M is a mono- and/or divalent cation.
 - 11 (3) Paraffin sulfonates having 8 to 22 carbon atoms, preferably 12 to 16 carbon atoms, in the alkyl moiety. These surfactants are commercially available as Hostapur SAS from Hoechst Celanese.
 - 12 (4) Olefin sulfonates having 8 to 22 carbon atoms, preferably 12 to 16 carbon atoms. Most preferred is sodium C.sub.14 -C.sub.16 olefin sulfonate, available as Bioterge AS 40.RTM..

- 13 (5) Alkyl ether sulfates derived from an alcohol having 8 to 22 carbon atoms, preferably 12 to 16 carbon atoms, ethoxylated with less than 30, preferably less than 12, moles of ethylene oxide. Most preferred is sodium lauryl ether sulfate formed from 2 moles average ethoxylation, commercially available as Standopol ES-2.RTM..
- 14 (6) Alkyl glyceryl ether sulfonates having 8 to 22 carbon atoms, preferably 12 to 16 carbon atoms, in the alkyl moiety.
- 15 (7) Fatty acid ester sulfonates of the formula: $R_{sup.1}CH(SO_{sub.3}-M^+)CO_{sub.2}R_{sup.2}$ where $R_{sup.1}$ is straight or branched alkyl from about $C_{sub.8}$ - to $C_{sub.18}$, preferably $C_{sub.12}$ to $C_{sub.16}$, an $dR_{sup.2}$ is straight or branched alkyl from about $C_{sub.1}$ to $C_{sub.6}$, preferably primarily $C_{sub.1}$, and M^+ represents a mono- or divalent cation.
- 16 (8) Secondary alcohol sulfates having 6 to 18, preferably 8 to 16 carbon atoms.
- 17 (9) Fatty acyl isethionates having from 10 to 22 carbon atoms, with sodium cocoyl isethionate being preferred.
- 18 (10) Dialkyl sulfosuccinates wherein the alkyl groups range from 3 to 20 carbon atoms each.
- 19 (11) Alkanoyl sarcosinates corresponding to the formula $RCON(CH_{sub.3})CH_{sub.2}CO_{sub.2}M$ wherein R is alkyl or alkenyl of about 10 to about 20 carbon atoms and M is a water-soluble cation such as ammonium, sodium, potassium and trialkanolammonium. Most preferred is sodium lauroyl sarcosinate.
- 20 (12) Alkyl lactylates wherein the alkyl groups range from 8 to 12 carbon atoms, with sodium lauroyl lactylate sold as Pationic 138 C.RTM. available from the Patterson Chemical Company as the most preferred.
- 21 (13) Taurates having from 8 to 16 carbon atoms, with cocoyl methyl taurate being preferred.
- 22 Nonionic lathering surfactants suitable for the present invention include $C_{sub.10}$ - $C_{sub.20}$ fatty alcohol or acid hydrophobes condensed with from 2 to 100 moles of ethylene oxide or propylene oxide per mole of hydrophobe; $C_{sub.2}$ - $C_{sub.10}$ alkyl phenols condensed with from 2 to 20 moles of alkylene oxides; mono- and di- fatty acid esters of ethylene glycol such as ethylene glycol distearate; fatty add monoglycerides; sorbitan mono- and di- $C_{sub.8}$ - $C_{sub.20}$ fatty acids; and polyoxyethylene sorbitan available as Polysorbate 80 and Tween 80.RTM. as well as combinations of any of the above surfactants.
- 23 Other useful nonionic surfactants include alkyl polyglycosides, saccharide fatty amides (e.g. methyl gluconamides) as well as long chain tertiary amine oxides. Examples of the latter category are: dimethyldodecylamine oxide, oleyldi(2-hydroxyethyl)amine oxide, dimethyloctylamine oxide, dimethyldecylamine oxide, dimethyltetradecylamine oxide, di(2-hydroxyethyl)tetradecylamine oxide, 3-didodecyloxy-2-hydroxypropyldi(3-hydroxypropyl)amine oxide, and dimethylhexadecylamine oxide.
- 24 Amphoteric lathering surfactants useful for the present invention include aliphatic secondary and tertiary amines, preferably wherein the nitrogen is in a cationic state, in which the aliphatic radicals can be straight or branched chain and wherein one of the radicals contains an ionizable water solubilizing group such as carboxy, sulphonate, sulphate, phosphate or phosphonate. Illustrative substances are cocamidopropyl betaine, cocamphoacetate, cocamphodiacetate, cocamphopropionate, cocamphodipropionate, cocamidopropyl hydroxysultaine, cetyl dimethyl betaine, cocamidopropyl PG-dimonium chloride phosphate, coco dimethyl carboxymethyl betaine, cetyl dimethyl betaine and combinations thereof.
- 25 A necessary element of the present invention is that of a water insoluble substrate. By "water insoluble" is meant the substrate does not dissolve or readily break apart upon immersion in water. A wide variety of materials can be

used as the substrate. The following non-limiting characteristics are desirable: (i) sufficient wet strength for use, (ii) sufficient abrasivity, (iii) sufficient loft and porosity, (iv) sufficient thickness, and (v) appropriate size.

- 26 Non-limiting examples of suitable insoluble substrates which meet the above criteria include non-woven substrates, woven substrates, hydro-entangled substrates, air entangled substrates and the like. Preferred embodiments employ non-woven substrates since they are economical and readily available in a variety of materials. By non-woven is meant that the layer is comprised of fibers which are not woven into a fabric but rather are formed into a sheet, particularly a tissue. The fibers can either be random (i.e., randomly aligned) or they can be carded (i.e. combed to be oriented in primarily one direction). Furthermore, the non-woven substrate can be composed of a combination of layers of random and carded fibers.
- 27 Non-woven substrates may be comprised of a variety of materials both natural and synthetic. By natural is meant that the materials are derived from plants, animals, insects or byproducts. By synthetic is meant that the materials are obtained primarily from various man-made materials or from material that is usually a fibrous web comprising any of the common synthetic or natural textile-length fibers, or mixtures thereof.
- 28 Non-limiting examples of natural materials useful in the present invention are silk fibers, keratin fibers and cellulosic fibers. Non-limiting examples of keratin fibers include those selected from the group consisting of wool fibers, camel hair fibers, and the like. Non-limiting examples of cellulosic fibers include those selected from the group consisting of wood pulp fibers, cotton fibers, hemp fibers, jute fibers, flax fibers, and mixtures thereof. Wood pulp fibers are preferred while all cotton fibers (e.g. cotton pads) are normally avoided.
- 29 Non-limiting examples of synthetic materials useful in the present invention include those selected from the group consisting of acetate fibers, acrylic fibers, cellulose ester fibers, modacrylic fibers, polyamide fibers, polyester fibers, polyolefin fibers, polyvinyl alcohol fibers, rayon fibers and mixtures thereof. Examples of some of these synthetic materials include acrylics such as Acrilan.RTM., Creslan.RTM., and the acrylonitrile-based fiber, Orion.RTM.; cellulose ester fibers such as cellulose acetate, Arnel.RTM., and Acele.RTM.; polyamides such as Nylons (e.g., Nylon 6, Nylon 66, Nylon 610 and the like; polyesters such as Fortrel.RTM., Kodel.RTM., and the polyethylene terephthalate fibers, Dacron.RTM.; polyolefins such as polypropylene, polyethylene; polyvinyl acetate fibers and mixtures thereof.
- 30 Non-woven substrates made from natural materials consist of webs or sheets most commonly formed on a fine wire screen from a liquid suspension of the fibers.
- 31 Substrates made from natural materials useful in the present invention can be obtained from a wide variety of commercial sources. Non-limiting examples of suitable commercially available paper layers useful herein include Airtex.RTM., an embossed airlaid cellulosic layer having a base weight of about 71 gsy, available from James River Corporation, Green Bay, Wis.; and Walkisoft.RTM., an embossed airlaid cellulosic having a base weight of about 75 gsy, available from Walkisoft U.S.A., Mount Holly, N.C.
- 32 Non-woven substrates made from synthetic material useful in the present invention can also be obtained from a wide variety of commercial sources. Non-limiting examples of suitable non-woven layer materials useful herein include HFE-40-047, an apertured hydroentangled material containing about 50% rayon and 50% polyester, and having a basis weight of about 43 grams per square yard (gsy), available from Vertec, Inc., Walpole, Mass.; HEF 140-102, an apertured hydro-entangled material containing about 50% rayon and 50% polyester, and having a basis weight of about 56 gsy, available from Veratec, Inc., Walpole, Mass.; Novenet.RTM. 149-191, a thermo-bonded grid patterned material containing about 69% rayon, about 25% polypropylene, and about 6% cotton, and having a basis weight of about 100 gsy, available from Veratec, Inc., Walpole, Mass.; HEF Nubtex.RTM. 149-801, a nubbed,

apertured hydro-entangled material, containing about 100% polyester, and having a basis weight of about 70 gsy, available from Veratec, Inc. Walpole, Mass.; Keybak.RTM. 951V, a dry formed apertured material, containing about 75% rayon, about 25% acrylic fibers, and having a basis weight of about 43 gsy, available from Chicopee Corporation, New Brunswick, N.J.; Keybak.RTM. 1368, an apertured material, containing about 75% rayon, about 5% polyester, and having a basis weight of about 39 gsy, available from Chicopee Corporation, New Brunswick, N.J.; Duralace.RTM. 1236, an apertured, hydro-entangled material, containing about 100% rayon, and having a basis weight from about 40 gsy to about 115 gsy, available from Chicopee Corporation, New Brunswick, N.J.; Duralace.RTM. 5904, an apertured, hydro-entangled material, containing about 100% polyester, and having a basis weight from about 40 gsy to about 115 gsy, available from Chicopee Corporation, New Brunswick, N.J.; Sontaro.RTM. 8868, a hydro-entangled material, containing about 50% cellulose and about 50% polyester, and having a basis weight of about 60 gsy, available from Dupont Chemical Corp.

- 33 Most preferred as a substrate for purposes of this invention are non-woven substrates, especially blends of rayon/polyester and ratios of 10:90 to 90:10, preferably ratios of 20:80 to 80:20, optimally 40:60 to 60:40 by weight. A most useful substrate is a 70:30 rayon/polyester non-woven wipe article.
- 34 Anywhere from 1 to 100, preferably from 5 to 50 single wipes may be stored within a dispensing pouch or container, preferably a moisture impermeable pouch or container. During storage and between dispensing, the pouch or container is preferably resealable. Single wipe containing pouches may also be employed.
- 35 The water insoluble substrates of the present invention can comprise two or more layers, each having a different texture and abrasiveness. The differing textures can result from the use of different combinations of materials or from the use of a substrate having a more abrasive side for exfoliation and a softer, absorbent side for gentle cleansing. In addition, separate layers of the substrate can be manufactured to have different colors, thereby helping the use to further distinguish the surfaces.
- 36 The amount of impregnating composition relative to the substrate may range from about 20:1 to 1:20, preferably from 10:1 to about 1:10 and optimally from about 2:1 to about 1:2 by weight.
- 37 Impregnating compositions of the present invention may also include silicones of a volatile and non-volatile variety. Typical volatile silicones are the cyclomethicones commercially available as Dow Corning 244, 245, 344 and 345. Linear volatile dimethicones are also suitable. Non-volatile silicones include polydimethyl siloxanes of a viscosity greater than 2 centistoke and silicone copolyols also known as dimethicone copolyol for which Dow Corning 193 is a commercial source. Amounts of the silicones may range from about 0.01 to about 20, preferably from about 0.5 to about 3% by weight of the impregnated composition.
- 38 Cationic conditioning agents in monomeric and polymeric type are also useful for purposes of this invention. Examples of the polymeric type include: cationic cellulose derivatives, cationic starches, copolymers of a diallyl quaternary ammonium salt and an acryl amide, quaternized vinylpyrrolidone vinylimidazole polymers polyglycol amine condensates, quaternized collagen polypeptide, polyethylene imine, cationized silicon polymer (e.g. Amodimethicone), cationic silicon polymers provided in a mixture with other components under the trademark Dow Corning 929 (cationized emulsion), copolymers of adipic acid and dimethylaminohydroxypropyl diethylenetriamine, cationic chitin derivatives, cationized guar gum (e.g. Jaguar C-B-S, Jaguar C-17, Jaguar C-16 etc. manufactured by the Celanese Company), quaternary ammonium salt polymers (e.g. Mirapol A-15, Mirapol AD-1, Mirapol AZ-1, etc., manufactured by the Miranol Division of the Rhone Poulenc Company). Most preferred is polyquaternium-11 available as Luviquat.RTM. PQ 11 sold by the BASF Corporation.
- 39 Examples of monomeric cationic conditioning agents are salts of the general structure: ##STR1##

- 40 wherein R.sup.1 is selected from an alkyl group having from 12 to 22 carbon atoms, or aromatic, aryl or alkaryl groups having from 12 to 22 carbon atoms; R.sup.2, R.sup.3, and R.sup.4 are independently selected from hydrogen, an alkyl group having from 1 to 22 carbon atoms, or aromatic, aryl or alkaryl groups having from 12 to 22 carbon atoms; and X.sup.- is an anion selected from chloride, bromide, iodide, acetate, phosphate, nitrate, sulfate, methyl sulfate, ethyl sulfate, tosylate, lactylate, citrate, glycolate, and mixtures thereof. Additionally, the alkyl groups can also contain ether linkages, or hydroxy or amino group substituents (e.g. the alkyl groups can contain polyethylene glycol and polypropylene glycol moieties). Preferably the anion is phosphate, especially preferred is hydroxy ethyl cetyl dimonium phosphate available as Luviquat.RTM. Mono CP from the BASF Corporation.
- 41 Amino silicones quats may similarly be employed. Most preferred is Silquat AD designated by the CTFA as Silicone Quaternium 8, available from Siltech Inc.
- 42 Amounts of each cationic agent may range from 0.06 to 5%, preferably from 0.1 to 3%, optimally from 0.3 to 2.5% by weight of the impregnated composition.
- 43 The disposable, single use personal care cleansing products of the present invention are manufactured by separately or simultaneously adding onto or impregnating into a water insoluble substrate a lathering surfactant and alkyl diol, wherein the resulting product is substantially dry. By "separately" is meant that the surfactants and alkyl diol can be added sequentially, in any order without first being combined together. By "simultaneously" is meant that the surfactants and alkyl diol can be added at the same time, with or without first being combined together.
- 44 The surfactant, alkyl diol and any optional ingredients can be added onto or impregnated into the water insoluble substrate by any means known to those skilled in the art. For example, addition can be through spraying, laser printing, splashing, dipping, soaking, or coating.
- 45 When water or moisture is used or present in the manufacturing process, the resulting treated substrate is then dried so that it is substantially free of water. The treated substrate can be dried by any means known to those skilled in the art. Non-limiting examples of known drying means include the use of convection ovens, radiant heat sources, microwave ovens, forced air ovens, and heated rollers or cams. Drying also includes air drying without the addition of heat energy, other than that present in the ambient environment. Also, a combination of various drying methods can be used.
- 46 Except in the operating and comparative examples, or where otherwise explicitly indicated, all numbers in this description indicating amounts of material ought to be understood as modified by the word "about".
- 47 The following examples will more fully illustrate the embodiments of this invention. All parts, percentages and proportions referred to herein and in the appended claims are by weight unless otherwise illustrated.
- 48 EXAMPLE 1
- 49 A series of comparative experiments were conducted to evaluate the effect of various alkyl polyols to structure cleansing compositions as impregnates onto substrate wipes of the present invention. Table I lists components and their concentrations for comparative Samples A-G.

TABLE I

SAMPLE (WEIGHT %)

INGREDIENT	A	B	C	D	E	F	G
------------	---	---	---	---	---	---	---

Hexylene Glycol	16.26	--	--	--	--	--	--
Propylene Glycol	--	16.26	--	--	--	--	--
Butylene Glycol	--	--	16.26	--	--	--	--
Glycerin	--	--	--	16.26	--	--	--
Sorbitol	--	--	--	--	16.26	--	--
Methylpropane <u>Diol</u>	--	--	--	--	--	16.26	--
(MP <u>Diol</u>)							
Laureth 4	--	--	--	--	--	--	16.26
Polyquaternium 7	1.07	1.07	1.07	1.07	1.07	1.07	1.07
(Merquat 2200 .RTM.)							
Cocamidopropyl	17.60	17.60	17.60	17.60	17.60	17.60	17.60
Betaine (Tegobetaine							
CKD .RTM.; (82% Active)							
Decyl Polyglucoside	36.09	36.09	36.09	36.09	36.09	36.09	36.09
(Plantaren 2000N .RTM.;							
50% Active in Water)							
Sodium Lauroyl	17.60	17.60	17.60	17.60	17.60	17.60	17.60
Sarcosinate (Hamposyl							
L-95 .RTM.; 94%							
Active)							
Sodium Lauroyl	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Lactylate (Pationic							
138C .RTM.)							
Capric/Caprylic	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Triglycerides (Miglyol							
812 .RTM.)							
Silicone Quaternium-8	6.63	6.63	6.63	6.63	6.63	6.63	6.63
(Silquat AD .RTM.; 40%							
Active in Water)							
Fragrance	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Glydant Plus .RTM. Liquid	0.20	0.20	0.20	0.20	0.20	0.20	0.20
(DMDM Hydantoin							
and Iodopropynyl							

Butylcarbamate in
Butylene Glycol)

- 50 These formulations were prepared in the following manner. Glycol, glycerin, sorbitol or laureth-4, as appropriate, were charged to a mixing vessel. Moderate to vigorous agitation was applied. Thereafter the Merquat 2200.RTM. was folded into the batch with mixing until well dispersed. Tegobetaine CKD.RTM. was then charged with moderate/vigorous agitation until all clumps of this material disappeared. Decylpolyglucoside was added under continuous agitation. Heat was applied to the batch to achieve 80.degree. C. Then Hamposyl L-95.RTM., Pationic 138C.RTM. and Miglyol 812.RTM. were sequentially added. Temperatures were lowered to 60.degree. C. allowing addition of Silquat AD.RTM.. Upon cooling to 45.degree. C., fragrance and Glydant Plus.RTM. Liquid were charged to the batch.

TABLE II

SAMPLE	RESULTS
A	Free flowing liquid
B	Thick paste
C	Thick paste
D	Unable to complete formulation, too viscous after Hamposyl L-95 .RTM. addition
E	Unable to complete formulation, too viscous after Tegobetaine CKD .RTM. addition
F	Thick paste
G	Unable to complete formulation, too viscous after Tegobetaine CKD .RTM. addition

- 51 Evident from Table II was that only the hexylene glycol was able to provide a free flowing liquid which could evenly be distributed onto a substrate cloth. Propylene glycol and butylene glycol resulted in thick pastes which could not easily be utilized in the substrate coating process. Samples D, E and G respectively containing glycerin, sorbitol and laureth-4 could not even be formulated into a spreadable composition. Sample F utilizing methyl propane diol as a structuring aid was too thick for the substrate coating process. It was surprising to find that lower molecular weight glycols such as butylene glycol or propylene glycol were much poorer structuring agents than hexylene glycol. Likewise, higher molecular weight materials such as laureth-4 and sorbitol were poor structuring candidates.

52 EXAMPLE 2

- 53 A set of comparative experiments were conducted similar to those reported under Example 1, except utilizing an alternate surfactant system of sodium cocoylisethionate and cocamidopropyl betaine. The formulations are outlined under Table III.

TABLE III

INGREDIENTS	SAMPLE (WEIGHT %)		
	A	B	C
Hexylene Glycol	30.50	--	--
Glycerin	--	30.50	--
Butylene Glycol	--	--	30.50
Polyquaternium 7 (Merquat 2200 .RTM.; 95% Active in Water)	0.80	0.80	0.80
Sodium Cocoyl Isethionate (Tauranol I-78 .RTM.; 78% Active)	30.00	30.00	30.00
Cocamidopropyl Betaine (Tegobetaine CKD .RTM.; 82% Active)	30.00	30.00	30.00
Sodium Lauroyl Lactylate (Pationic 138 .RTM.)	1.70	1.70	1.70
Silicone Quaternium-8 (Silquat AD .RTM.; 40% Active in Water)	6.80	6.80	6.80
Glydant Plus Liquid	0.20	0.20	0.20

- 54 The formulations were prepared by adding either the glycol or glycerin as appropriate, to a reactor vessel. Moderate/vigorous agitation was begun followed by addition of Merquat 2200.RTM. and then Tegobetaine CKD.RTM.. Heat was applied to achieve 80.degree. C. Tauranol I-78.RTM. and then Pationic 138.RTM. were sequentially charged to the reactor under agitation. The formulation was then cooled to 60.degree. C. whereupon Silquat AD.RTM. was folded into the mixture. Subsequently, the composition was cooled to 45.degree. C. to allow addition of Glydant Plus.RTM. Liquid.

TABLE IV

SAMPLE	RESULTS
A	Freely flowing upon batch completion; hardens into solid after 24 hours which can convert at 45.degree. C. into a freely flowing liquid
B	Batch could not be completed because formula too viscous
C	Batch could not be completed because formula too viscous

- 55 Table IV reports results similar to those found in Example 1. Hexylene glycol was found to be an acceptable structurant. Glycerin and butylene glycol caused

unacceptable thickening of the formulations allowing them not to be easily applied to a substrate cloth.

56 EXAMPLE 3

57 A set of formulations were prepared to evaluate the effect of weight ratio between hexylene glycol and lathering surfactant. Table V outlines compositions of these formulations.

TABLE V

SAMPLE (WEIGHT %)

INGREDIENTS	A	B	C
Hexylene Glycol	5.53	53.92	16.26
Polyquaternium 7 (Merquat 2200)	1.21	0.59	1.07
Cocoamidopropyl Betaine (Tegobetaine CKD .RTM.; 82% Active)	19.86	9.68	17.60
Decyl Polyglucoside (Plantaren 2000N .RTM.; 50% Active in Water)	40.72	19.86	36.09
Sodium Lauroyl Sarcosinate (Hamposyl L-95 .RTM.; 94% Active)	19.86	9.68	17.60
Sodium Lauroyl Lactylate (Pationic 138C .RTM.)	1.86	0.91	1.65
Capric/Caprylic Triglycerides (Miglyol 812 .RTM.)	2.82	1.38	2.50
Silicone Quaternium-8 (Silquat AD .RTM.; 40% Active in Water)	7.48	3.65	6.63
Fragrance	0.45	0.22	0.40
Glydant Plus .RTM. Liquid (DMDM Hydantoin and Iodopropynyl Butylcarbamate in Butylene glycol)	0.23	0.11	0.20

TABLE V

SAMPLE (WEIGHT %)

INGREDIENTS	A	B	C
Hexylene Glycol	5.53	53.92	16.26

Polyquaternium 7 (Merquat 2200)	1.21	0.59	1.07
Cocoamidopropyl Betaine (Tegobetaine 19.86	9.68	17.60	
CKD .RTM.; 82% Active)			
Decyl Polyglucoside (Plantaren 2000N .RTM.; 40.72	19.86	36.09	
50% Active in Water)			
Sodium Lauroyl Sarcosinate (Hamposyl 19.86	9.68	17.60	
L-95 .RTM.; 94% Active)			
Sodium Lauroyl Lactylate (Pationic 1.86	0.91	1.65	
138C .RTM.)			
Capric/Caprylic Triglycerides (Miglyol 2.82	1.38	2.50	
812 .RTM.)			
Silicone Quaternium-8 (Silquat AD .RTM.; 7.48	3.65	6.63	
40% Active in Water)			
Fragrance	0.45	0.22	0.40
Glydant Plus .RTM. Liquid (DMDM Hydantoin 0.23	0.11	0.20	
and Iodopropynyl Butylcarbamate in			
Butylene glycol)			

- 58 Samples A-C were prepared in a manner similar to that described for Example 1. These formulations were coated onto a six inch by eight inch rayon/polyester non-woven cloth followed by removal of water in an oven. As reported in Table VI, Sample A was too viscous for the formula even to be completed. In this sample the relative weight ratio of hexylene glycol to surfactant was 1:10. Sample B required a coating of 1.63 grams to achieve 0.44 grams surfactant onto the non-woven cloth. This amount of coating resulted in a wet to the touch feel even after drying in the oven. Lather was also somewhat weaker than from the Sample C towelette. The weight ratio of hexylene glycol to surfactant in Sample B was 2:1.
- 59 Sample C required 0.9 grams to place 0.44 grams of surfactant onto the non-woven cloth. The processed cloth had a dry to the touch feel and lather somewhat stronger than the towelette coated with Sample B. The weight ratio of hexylene glycol to total lathering surfactant in Sample C was 1:3.
- 60 The foregoing description and examples illustrate selected embodiments of the present invention. In light thereof variations and modifications will be suggested to one skilled in the art, all of which are within the spirit and purview of this invention.

CLAIMS:

What is claimed is:

1. A substantially dry cleansing product comprising:

(i) a water insoluble substrate;

(ii) a lathering surfactant; and

(iii) a C.sub.5 -C.sub.12 alkyl diol, the diol and total lathering surfactant being present in a weight ratio from about 1:1 to about 1:8.

2. The article according to claim 1 wherein the alkyl diol is hexylene glycol.

3. The article according to claim 1 wherein the ratio of alkyl diol to total surfactant ranges from about 1:2 to about 1:6 by weight.

4. The article according to claim 1 wherein the alkyl diol and water have a combined weight relative to total lathering surfactant that ranges from about 3:1 to about 1:5.

5. The article according to claim 1 wherein the lathering surfactant is present in an amount from about 0.5 to about 40% by weight of total impregnated composition deposited upon the water insoluble substrate.

6. The article according to claim 5 wherein the amount of alkyl diol ranges from about 2 to about 40% by weight of the impregnated composition.

7. The article according to claim 1 wherein the water insoluble substrate is a sheet selected from a group consisting of non-woven, woven, hydro-entangled and air entangled substrates.

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L13: Entry 91 of 131

File: USPT

Apr 17, 2001

US-PAT-NO: 6217887

DOCUMENT-IDENTIFIER: US 6217887 B1

TITLE: Leave-on antimicrobial compositions which provide improved immediate germ reduction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 92. Document ID: US 6214363 B1

L13: Entry 92 of 131

File: USPT

Apr 10, 2001

US-PAT-NO: 6214363

DOCUMENT-IDENTIFIER: US 6214363 B1

TITLE: Liquid antimicrobial cleansing compositions which provide residual benefit versus gram negative bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 93. Document ID: US 6210695 B1

L13: Entry 93 of 131

File: USPT

Apr 3, 2001

US-PAT-NO: 6210695

DOCUMENT-IDENTIFIER: US 6210695 B1

TITLE: Leave-on antimicrobial compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 94. Document ID: US 6197315 B1

L13: Entry 94 of 131

File: USPT

Mar 6, 2001

US-PAT-NO: 6197315

DOCUMENT-IDENTIFIER: US 6197315 B1

TITLE: Antimicrobial wipes which provide improved residual benefit versus gram negative bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 95. Document ID: US 6190675 B1

L13: Entry 95 of 131

File: USPT

Feb 20, 2001

US-PAT-NO: 6190675

DOCUMENT-IDENTIFIER: US 6190675 B1

**** See image for Certificate of Correction ****

TITLE: Mild, rinse-off antimicrobial liquid cleansing compositions which provide improved residual benefit versus gram positive bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 96. Document ID: US 6183763 B1

L13: Entry 96 of 131

File: USPT

Feb 6, 2001

US-PAT-NO: 6183763

DOCUMENT-IDENTIFIER: US 6183763 B1

TITLE: Antimicrobial wipes which provide improved immediate germ reduction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 97. Document ID: US 6183757 B1

L13: Entry 97 of 131

File: USPT

Feb 6, 2001

US-PAT-NO: 6183757

DOCUMENT-IDENTIFIER: US 6183757 B1

TITLE: Mild, rinse-off antimicrobial cleansing compositions which provide improved immediate germ reduction during washing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 98. Document ID: US 6152358 A

L13: Entry 98 of 131

File: USPT

Nov 28, 2000

US-PAT-NO: 6152358

DOCUMENT-IDENTIFIER: US 6152358 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 99. Document ID: US 6123934 A

L13: Entry 99 of 131

File: USPT

Sep 26, 2000

US-PAT-NO: 6123934

DOCUMENT-IDENTIFIER: US 6123934 A

TITLE: Hair cosmetic composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 100. Document ID: US 6113886 A

L13: Entry 100 of 131

File: USPT

Sep 5, 2000

US-PAT-NO: 6113886

DOCUMENT-IDENTIFIER: US 6113886 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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L12 and (lotion or cream)	131

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 101 through 110 of 131 returned.**☐ 101. Document ID: US 6090925 A

L13: Entry 101 of 131

File: USPT

Jul 18, 2000

US-PAT-NO: 6090925

DOCUMENT-IDENTIFIER: US 6090925 A

TITLE: Macromolecular microparticles and methods of production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 102. Document ID: US 5981719 A

L13: Entry 102 of 131

File: USPT

Nov 9, 1999

US-PAT-NO: 5981719

DOCUMENT-IDENTIFIER: US 5981719 A

**** See image for Certificate of Correction ****

TITLE: Macromolecular microparticles and methods of production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 103. Document ID: US 5919434 A

L13: Entry 103 of 131

File: USPT

Jul 6, 1999

US-PAT-NO: 5919434

DOCUMENT-IDENTIFIER: US 5919434 A

TITLE: Polymeric surfactant-encapsulated microbubbles and their use in ultrasound imaging

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 104. Document ID: US 5912257 A

L13: Entry 104 of 131

File: USPT

Jun 15, 1999

US-PAT-NO: 5912257

DOCUMENT-IDENTIFIER: US 5912257 A

TITLE: Two-photon upconverting dyes and applications

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 105. Document ID: US 5876995 A

L13: Entry 105 of 131

File: USPT

Mar 2, 1999

US-PAT-NO: 5876995

DOCUMENT-IDENTIFIER: US 5876995 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 106. Document ID: US 5874417 A

L13: Entry 106 of 131

File: USPT

Feb 23, 1999

US-PAT-NO: 5874417

DOCUMENT-IDENTIFIER: US 5874417 A

**** See image for Certificate of Correction ****TITLE: Functionalized derivatives of hyaluronic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 107. Document ID: US 5760118 A

L13: Entry 107 of 131

File: USPT

Jun 2, 1998

US-PAT-NO: 5760118

DOCUMENT-IDENTIFIER: US 5760118 A

TITLE: End use applications of biodegradable polymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 108. Document ID: US 5750733 A

L13: Entry 108 of 131

File: USPT

May 12, 1998

US-PAT-NO: 5750733

DOCUMENT-IDENTIFIER: US 5750733 A

TITLE: Hydroxy containing alkyl glycamides, low foaming detergent compositions comprising such and a process for their manufacture

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 109. Document ID: US 5720950 A

L13: Entry 109 of 131

File: USPT

Feb 24, 1998

US-PAT-NO: 5720950

DOCUMENT-IDENTIFIER: US 5720950 A

**** See image for Certificate of Correction ****

TITLE: Polymers containing antifibrotic agents, compositions containing such polymers, and methods of preparation and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 110. Document ID: US 5707615 A

L13: Entry 110 of 131

File: USPT

Jan 13, 1998

US-PAT-NO: 5707615

DOCUMENT-IDENTIFIER: US 5707615 A

TITLE: Method of treating HIV infections with anti-viral formulations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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L12 and (lotion or cream)	131

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L13: Entry 111 of 131

File: USPT

Sep 23, 1997

US-PAT-NO: 5670143

DOCUMENT-IDENTIFIER: US 5670143 A

TITLE: Anti-HIV pharmaceutical formulations

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#)☐ 112. Document ID: US 5660822 A

L13: Entry 112 of 131

File: USPT

Aug 26, 1997

US-PAT-NO: 5660822

DOCUMENT-IDENTIFIER: US 5660822 A

**** See image for Certificate of Correction ****

TITLE: Polymers containing antifibrotic agents, compositions containing such polymers, and methods of preparation and use

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#)☐ 113. Document ID: US 5652347 A

L13: Entry 113 of 131

File: USPT

Jul 29, 1997

US-PAT-NO: 5652347

DOCUMENT-IDENTIFIER: US 5652347 A

TITLE: Method for making functionalized derivatives of hyaluronic acid[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#)☐ 114. Document ID: US 5616568 A

L13: Entry 114 of 131

File: USPT

Apr 1, 1997

US-PAT-NO: 5616568

DOCUMENT-IDENTIFIER: US 5616568 A

TITLE: Functionalized derivatives of hyaluronic acid[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#)

☐ 115. Document ID: US 5612080 A

L13: Entry 115 of 131

File: USPT

Mar 18, 1997

US-PAT-NO: 5612080

DOCUMENT-IDENTIFIER: US 5612080 A

TITLE: Low calorie fat substitute

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 116. Document ID: US 5606108 A

L13: Entry 116 of 131

File: USPT

Feb 25, 1997

US-PAT-NO: 5606108

DOCUMENT-IDENTIFIER: US 5606108 A

TITLE: Process for preparing anionic polycarbonate and polyester oligomers having useful antiviral properties

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 117. Document ID: US 5571505 A

L13: Entry 117 of 131

File: USPT

Nov 5, 1996

US-PAT-NO: 5571505

DOCUMENT-IDENTIFIER: US 5571505 A

**** See image for Certificate of Correction ****

TITLE: Anti-HIV oligomers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 118. Document ID: US 5565215 A

L13: Entry 118 of 131

File: USPT

Oct 15, 1996

US-PAT-NO: 5565215

DOCUMENT-IDENTIFIER: US 5565215 A

TITLE: Biodegradable injectable particles for imaging

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 119. Document ID: US 5543158 A

L13: Entry 119 of 131

File: USPT

Aug 6, 1996

US-PAT-NO: 5543158

DOCUMENT-IDENTIFIER: US 5543158 A

**** See image for Certificate of Correction ****

TITLE: Biodegradable injectable nanoparticles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 120. Document ID: US 5458910 A

L13: Entry 120 of 131

File: USPT

Oct 17, 1995

US-PAT-NO: 5458910

DOCUMENT-IDENTIFIER: US 5458910 A

TITLE: Low calorie fat substitute

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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L13: Entry 121 of 131

File: USPT

Aug 22, 1995

US-PAT-NO: 5444113

DOCUMENT-IDENTIFIER: US 5444113 A

**** See image for Certificate of Correction ****

TITLE: End use applications of biodegradable polymers

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 122. Document ID: US 5419908 A

L13: Entry 122 of 131

File: USPT

May 30, 1995

US-PAT-NO: 5419908

DOCUMENT-IDENTIFIER: US 5419908 A

**** See image for Certificate of Correction ****TITLE: Sanitizing composition comprising a blend of aromatic and polyunsaturated carboxylic acids[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 123. Document ID: US 5372807 A

L13: Entry 123 of 131

File: USPT

Dec 13, 1994

US-PAT-NO: 5372807

DOCUMENT-IDENTIFIER: US 5372807 A

**** See image for Certificate of Correction ****

TITLE: Polymers containing antifibrotic agents, compositions containing such polymers, and methods of preparation and use

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 124. Document ID: US 5336500 A

L13: Entry 124 of 131

File: USPT

Aug 9, 1994

US-PAT-NO: 5336500

DOCUMENT-IDENTIFIER: US 5336500 A

**** See image for Certificate of Correction ****

TITLE: Sanitizing composition comprising a blend of aromatic and polyunsaturated

carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 125. Document ID: US 5286512 A

L13: Entry 125 of 131

File: USPT

Feb 15, 1994

US-PAT-NO: 5286512

DOCUMENT-IDENTIFIER: US 5286512 A

TITLE: Diol lipid analogues as edible fat replacements

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 126. Document ID: US 5276182 A

L13: Entry 126 of 131

File: USPT

Jan 4, 1994

US-PAT-NO: 5276182

DOCUMENT-IDENTIFIER: US 5276182 A

TITLE: Process for preparing polyurea oligomers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 127. Document ID: US 5093142 A

L13: Entry 127 of 131

File: USPT

Mar 3, 1992

US-PAT-NO: 5093142

DOCUMENT-IDENTIFIER: US 5093142 A

**** See image for Certificate of Correction ****

TITLE: Alcohol amine esters as low calorie fat mimetics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 128. Document ID: US 5028431 A

L13: Entry 128 of 131

File: USPT

Jul 2, 1991

US-PAT-NO: 5028431

DOCUMENT-IDENTIFIER: US 5028431 A

TITLE: Article for the delivery to animal tissue of a pharmacologically active agent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCM	Draw Desc	Image
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☐ 129. Document ID: US 4997656 A

L13: Entry 129 of 131

File: USPT

Mar 5, 1991

US-PAT-NO: 4997656

DOCUMENT-IDENTIFIER: US 4997656 A

TITLE: Adhesive for percutaneous administration

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 130. Document ID: US 4844902 A

L13: Entry 130 of 131

File: USPT

Jul 4, 1989

US-PAT-NO: 4844902

DOCUMENT-IDENTIFIER: US 4844902 A

**** See image for Certificate of Correction ****

TITLE: Topically applicable formulations of gyrase inhibitors in combination with corticosteroids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L13: Entry 131 of 131

File: USPT

May 17, 1977

US-PAT-NO: 4024088

DOCUMENT-IDENTIFIER: US 4024088 A

TITLE: Compositions and methods useful in forming polyether polyurethanes having release properties

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[RMC](#) | [Draw Desc](#) | [Image](#)[Generate Collection](#)[Print](#)

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